

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	570	320/101	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 10:56
S2	216	S1 and (fuel cell)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 12:56
S3	188	S2 and voltage	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 10:56
S4	121	S3 and sens\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 16:51
S5	2	S4 and (wheatstone)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 10:57

## EAST Search History

S6	94	("20010014415"   "20010018142"   "20020076583"   "20020094467"   "20020094468"   "20020094469"   "20030003333"   "20030022036"   "20030022037"   "20030022038"   "20030022040"   "20030022041"   "20030022042"   "20030022045"   "20030022050"   "2988656"   "3061658"   "3317348"   "3383580"   "3452347"   "3553026"   "3580741"   "3600234"   "3615842"   "3666562"   "3697325"   "3775282"   "3808534"   "3850696"   "3891465"   "3935028"   "3949545"   "3969697"   "3996579"   "4037024"   "4078893"   "4085255"   "4197675"   "4243731"   "4310606"   "4424491"   "4649537"   "4729931"   "4816768"   "4826741"   "4829290"   "5074137"   "5132663"   "5139894"   "5199396"   "5325367"   "5392873"   "5397655"   "5478662"   "5482790"   "5503944"   "5631532"   "5869952"   "5939218"   "5945229"   "6028414"   "6048473"   "6066408"   "6093500"   "6093502"   "6124054"   "6140820"   "6159626"   "6162556"   "6171718"   "6242120"   "6290594"   "6362540"   "6387556"   "6423434"   "6426158"   "6455181"   "6461751"   "6492043"   "6497971"   "6519510"   "6558826"   "6569549"   "6677066"   "8763113").PN. OR ("6979504").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2006/06/07 10:59
S7	2	S4 and (GMR or giant magnetoresistive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 11:22
S8	2	"US 20050225282"	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2006/06/08 17:55
S9	103	S4 and (electrical or conductive adj trace)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 11:15

## EAST Search History

S10	2	S9 and (GMR or giant magnetoresistive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 11:14
S11	5	S4 and ((electrical or conductive) adj trace)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 11:15
S13	2	S11 and S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 11:18
S14	2	S4 and (GMR or giant magneto\$1resistive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 11:23
S16	1624	324/207.21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 11:53
S17	1	S16 and (fuel adj cell)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 11:54
S19	366	S16 and (GMR or giant near magneto\$1resist\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 12:28
S20	83	S19 and (wheatstone)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 11:55

## EAST Search History

S21	0	S20 and (difference adj amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 11:55
S22	53	S20 and (voltage with (sens\$3 or monit\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 11:56
S23	22	S22 and (amplifier or op\$1amp)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 12:01
S24	1	S23 and (monit\$5 or sens\$3) with (battery or cell) with (voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 11:59
S25	1	S23 and ((monit\$5 or sens\$3) with (battery or cell) with (voltage))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 11:59
S26	0	S23 and ((electrical or conductive) near trace)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 12:01
S27	2	S23 and ((electrical or conductive) with trace)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 12:01
S28	188	S1 and (fuel adj cell)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 12:56

## EAST Search History

S29	50	"28" and (voltge with (sens\$3 or monit\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 16:40
S30	570	320/101	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 16:52
S31	216	S30 and (fuel cell)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 16:52
S32	188	S31 and voltage	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 16:52
S33	121	S32 and sens\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 16:52
S34	76	S33 and (voltage with (sens\$3 or monit\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 18:43
S35	570	320/101	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 18:43
S36	216	S35 and (fuel cell)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 18:43

## EAST Search History

S37	188	S36 and voltage	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 18:43
S38	121	S37 and sens\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 18:43
S39	76	S38 and (voltage with (sens\$3 or monit\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/07 18:43
S40	112	S37 NOT S39	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 10:01
S41	2	"US 20050040787"	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2006/06/07 18:57
S42	889	320/116	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 10:01
S43	458	320/116\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 10:01
S44	299	S43 and (fuel or cell)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 10:51

## EAST Search History

S45	182	S44 and (voltage with (sens\$3 or monitor\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 10:51
S46	4	S44 and ((voltage with (sens\$3 or monitor\$3)) and amplifier and magnetic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 10:07
S48	81	S45 and (amplifier or comparator or op\$1amp)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 10:10
S49	0	S48 and (GMR or giant magneto\$1resist\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 10:10
S50	5	("4823086"   "6121751").PN. OR ("6268710").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2006/06/08 10:50
S51	171	320/121\$.ccls.	US-PGPUB; USPAT; USOCR	AND	ON	2006/06/08 10:50
S52	45	S51 and (fuel or cell)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 10:51
S53	28	S52 and (voltage with (sens\$3 or monitor\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 10:51

## EAST Search History

S54	17	(US-20030022031-\$ or US-20020037756-\$ or US-20030113599-\$ or US-20040178768-\$ or US-20030044689-\$ or US-20030062874-\$).did. or (US-6979504-\$ or US-6924164-\$ or US-7037604-\$ or US-6762588-\$ or US-6762587-\$ or US-6462510-\$ or US-6268710-\$ or US-5914606-\$ or US-6541941-\$ or US-6339313-\$ or US-6239579-\$).did.	US-PGPUB; USPAT	AND	ON	2006/06/08 11:02
S55	3	S54 and (GMR or giant magneto\$1resist\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 11:04
S56	8	S54 and (fuel adj cell)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 11:04
S57	21	("3102222"   "3930192"   "4484140"   "4616170"   "4707795"   "4709202"   "5153496"   "5498950"   "5543245"   "5557189"   "5583440"   "5644208"   "5661463"   "5703464"   "5710503"   "5811959"   "6239579"   "6339313").PN. OR ("6541941").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2006/06/08 11:17
S58	0	("6339313" "6239579").pn.	US-PGPUB; USPAT; USOCR	AND	ON	2006/06/08 11:18
S59	3	S54 and (wheatstone)	US-PGPUB; USPAT; USOCR	AND	ON	2006/06/08 11:51
S60	0	S59 and (voltage divider)	US-PGPUB; USPAT; USOCR	AND	ON	2006/06/08 11:47
S61	2	S54 and (FET or MOSFET and opto\$9 and voltage adj divider)	US-PGPUB; USPAT; USOCR	AND	ON	2006/06/08 11:52
S62	1	S54 and ((FET or MOSFET) and opto\$9 and voltage adj divider)	US-PGPUB; USPAT; USOCR	AND	ON	2006/06/08 11:51

## EAST Search History

S63	17	(US-20030022031-\$ or US-20020037756-\$ or US-20030113599-\$ or US-20040178768-\$ or US-20030044689-\$ or US-20030062874-\$).did. or (US-6979504-\$ or US-6924164-\$ or US-7037604-\$ or US-6762588-\$ or US-6762587-\$ or US-6462510-\$ or US-6268710-\$ or US-5914606-\$ or US-6541941-\$ or US-6339313-\$ or US-6239579-\$).did.	US-PGPUB; USPAT	AND	ON	2006/06/08 11:58
S64	1	S63 and ((FET or MOSFET) and divider and opto)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 12:00
S65	1	(giant adj magneto\$1resist\$3) (fuel adj cell) (amplifier or comparator) (opto\$9) (voltage adj divider) ((electrical or conductive) with trace) (FET or MOSFET) (Wheatstone)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 12:03
S66	1	(giant adj magneto\$1resist\$3) (fuel adj cell) (amplifier or comparator) (opto\$9) (voltage adj divider) ((electrical or conductive) with trace) (FET or MOSFET)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 12:03
S67	1	(giant adj magneto\$1resist\$3) (battery or cell) (amplifier or comparator) (opto\$9) (voltage adj divider) ((electrical or conductive) with trace) (FET or MOSFET)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 12:03
S68	14	(battery or cell) (amplifier or comparator) (opto\$9) (voltage adj divider) ((electrical or conductive) with trace) (FET or MOSFET)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 12:03
S69	3	("5170124"   "6140820"   "6281684").PN. OR ("6762587").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2006/06/08 12:27
S72	707	324/207.21\$.ccls.	US-PGPUB; USPAT; USOCR	AND	ON	2006/06/08 12:28

## EAST Search History

S73	171	S72 and (GMR or giant near magneto\$1resist\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 12:29
S74	56	S73 and (Wheatstone)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 12:29
S75	9	S74 and (voltage adj divider)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 15:48
S76	1	S75 and (opto\$9)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 12:29
S77	0	("6281684" "5170124").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 15:49
S78	4	("6281684" "5170124").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 15:49
S79	33489	"338"/.ccls.	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2006/06/08 17:56
S80	3227	S79 and (fuel adj cell or battery or cell)	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2006/06/08 17:56
S81	614	S80 and (current with sens\$3 or monit\$5)	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2006/06/08 17:57

## EAST Search History

S82	91	S81 and (wheatstone)	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2006/06/08 17:57
S83	3	S82 and (GMR or giant magneto\$1resist\$3)	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2006/06/08 18:11
S84	22	S81 and (GMR or giant magneto\$1resist\$3)	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2006/06/08 18:02
S85	32	S80 and (GMR or giant magneto\$1resist\$3)	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2006/06/08 18:02
S86	10	S85 NOT S84	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2006/06/08 18:03
S87	1734	338/32R	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2006/06/08 18:03
S88	544	S87 and (GMR or giant)	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2006/06/08 18:03
S89	89	S88 and (battery or cell)	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2006/06/08 18:11
S90	190	S79 and (GMR or giant magneto\$1resist\$3)	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2006/06/08 18:11
S91	135	S90 and ((current or voltage) with (sens\$4 or monit\$5))	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2006/06/08 18:14
S92	16	S91 and (current adj sensor)	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2006/06/08 18:14
S93	7	S92 and (amplifier or comparator)	US-PGPUB; USPAT; USOCR; DERWENT	AND	ON	2006/06/08 18:15

## EAST Search History

S94	10	("3813692"   "4937521"   "4949039"   "5134533"   "5317251"   "5523687"   "5585775"   "5592082").PN. OR ("5708407").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2006/06/08 18:18
S95	2	"6762587".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/06/08 19:21